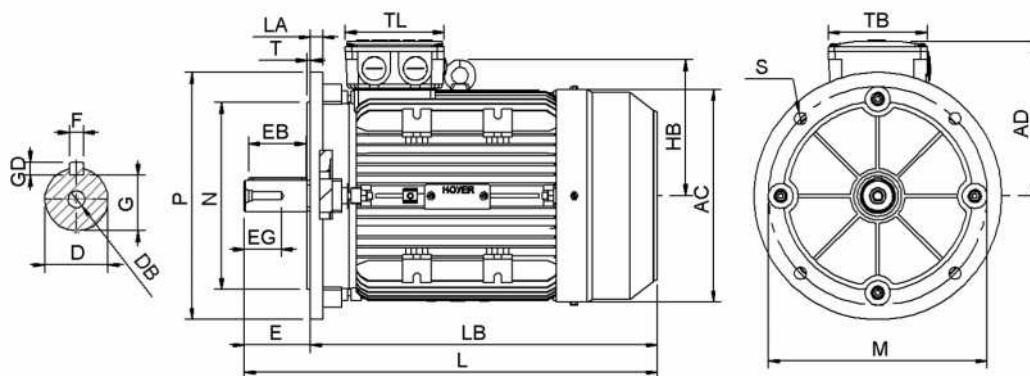


Data Sheet

Itemnumber....: 5520900209



AC = 175	DB = M8	EG = 24	GD = 7	LA = 10	M = 165	S = 4-Ø12	TL = 100
AD = 132	E = 50	F = 8	H = 90	LB = 278	N = 130	T = 3,50	
D = 24	EB = 40	G = 20	L = 328	LE = 319	P = 200	TB = 100	

Version

Type.....: HMA3 90S-2
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 2
Power at 50 Hz (kW).....: 1,50
Hz.....: 50
Voltage.....: 230VD/400VY
Winding voltage.....: 230VD/400VY 50 Hz
Power output (kW).....: 1,50
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

Mechanical design

Frame size.....: 90
Mounting.....: B5
Rain cap.....: No
Protection class.....: IP55
Cooling method.....: IC411/TEFC
External grounding.....: Yes
Drain hole.....: Yes
Frame material.....: Aluminium
Material approval.....: None
Shaft.....: IEC standard
Key.....: Closed key
Balancing.....: Half key balancing
Vibration class.....: Grade-A
Weight (kg).....: 15,0

Environment condition

Ambient temp. min. (°C)....: -20
Ambient temp. max. (°C)....: 40
Altitude (mtr up to).....: 1000

Bearing

DE Bearing.....: 6205-ZZ/C3
NDE Bearing.....: 6205-ZZ/C3
Fixed bearing.....: DE

Terminal box

Tbox position.....: Top
Cable entry direction.....: Right (from DE)
Cable entry
Main.....: 2 x M20x1,5
Plastic blindcaps
Accessory.....: NA
Connection type.....: Star (Y)
Terminal board thread.....: 6-M4

Test values

Rotor inertia (kgm²).....: 0,0022
Noise level (dB(A)).....: 62
No load current (A).....: 1,64
Winding resist. (ohm).....: 3,01
Starting time (sec.).....: 0,06
Temp. rise winding (K).....: 43
Temp. rise surface (K).....: 21

Motor protection

Thermal protection main....: PTC 3x 155 dgr
Thermal protection second..: None
Space heater.....: None
Temperature detector.....: No
SPM.....: No
IR wire.....: No
Tropical insulation.....: No

Explosion protection

According to.....: None
Type of protection.....: None

General

Direction of rotation.....: CW
Painting.....: RAL 9005 Gloss 10
Nameplate.....: Multivoltage
Special packing.....: No
Special requirements.....: No

Rated power (kW)	1,50	1,46	1,80	1,74
Frequency (Hz)	50	50	60	60
Voltage (V)	230 400	220 380	280 480	440
Connection	D Y	D Y	D Y	Y
Full load current (A)	5,40 3,15	5,60 3,20	5,40 3,15	3,20
Speed (rpm)	2920	2920	3500	3500
Power factor cos(phi)	0,82	0,83	0,82	0,84
Efficiency, 100/75/50 (%) . .	84,9/85,3/83,9	84,9/85,3/83,9	84,9/85,3/83,9	83,8/84,3/82,7
Ist/In	9,1	8,0	9,1	8,3
Full load torque (Nm)	4,90	4,75	4,90	4,75
Tst/Tn	2,8	2,6	2,8	2,4
Tmax /Tn	3	2,8	3	2,6
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45